

# MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

### **NOTICE OF ACCEPTANCE (NOA)**

CertainTeed Corporation 1400 Union Meeting Road, P.O. Box 1100 Blue Bell, PA 19422-0761

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** CertainTeed Modified Bitumen Roofing Systems over Cementitious Wood Fiber Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 13-0204.05 and consists of pages 1 through 14. The submitted documentation was reviewed by Alex Tigera.



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## **ROOFING SYSTEM APPROVAL**

<u>Category:</u> Roofing

Sub-Category: Modified Bitumen

Material:APP/SBSDeck Type:WoodMaximum Design Pressure:-67.5 psf.

# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Dwadwat	Dimonoiona	Test	Product
<u>Product</u>	<u>Dimensions</u>	<b>Specification</b>	<u>Description</u>
All Weather/Empire Base Sheet	36" x 65'10";	ASTM D 4601 Type II	Asphalt coated, fiberglass reinforced base sheet
Sheet	Roll weight: 86 lbs. (2 squares)	UL Type 15	base sneet
Flex-I-Glas <sup>TM</sup> Base Sheet	36" x 98'9"; Roll	· ·	Modified Bitumen coated fiberglass
riex-i-Gias ···· Base Sheet	weight: 90 lbs.	II	base sheet.
	(3 squares)	UL Type G2	ouse silect.
Flex-I-Glas™ FR Base Sheet	$39^{3}/_{8}$ " x 50'; Roll	ASTM D 6163,	Modified Bitumen coated fiberglass
Tica-1-Glas Tic Base Sheet	weight: 90 lbs.	Grade S, Type I	base sheet.
	(1.5 squares)		
Flintglas® Ply Sheet Type IV	36" x 164'7"; Roll	ASTM D 2178 Type	Fiberglass, asphalt impregnated ply
or VI	weight: 40/55 lbs.	IV or VI	sheet.
	(5 squares)	UL Type G1	
Flintlastic STA	$39^{3}/_{8}$ " x 33'; Roll	ASTM D 6222,	Smooth surfaced APP Modified
	weight: 90 lbs.	Grade S, Type II	Bitumen membrane with non-woven
	(1 square)		polyester mat reinforcement for torch
	2		application.
Flintlastic GTA, GTA-FR	39 <sup>3</sup> / <sub>8</sub> " x 33' 3"; Roll	ASTM D 6222,	Granule surfaced APP Modified
	weight: 105 lbs. (1 square)	Grade G, Type II	Bitumen membrane with non-woven
	(1 square)		polyester mat reinforcement for torch application.
Flintlastic GMS,	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll	ASTM D 6164,	Granule surfaced SBS Modified
GMS Premium	weight: 100/105 lbs.	Grade G, Type II	Bitumen membrane with non-woven
GIVIS I Tellifatii	(1 square)	Grade G, Type II	polyester mat reinforcement for mop
	( 1 /		application.
Flintlastic FR,	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll	ASTM D 6164,	Fire resistant, granule surfaced SBS
FR-P Premium	weight: 105 lbs.	Grade G, Type I	Modified Bitumen Membrane with
	(1 square)		non-woven polyester mat
			reinforcement for mop application.
Flintlastic FR Cap Sheet	$39^{3}/_{8}$ " x 34' 2"; Roll	ASTM D 6163,	Fire resistant, granule surfaced SBS
	weight: 90 lbs.	Grade G, Type I	Modified Bitumen membrane with
	(1 square)		fiberglass mat reinforcement for mop applications.
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# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	<b>Dimensions</b>	Test Specification	Product <u>Description</u>
Flintlastic FR Cap T	39-3/8" x 34'2"; Roll weight: 81lbs. (1 square)	ASTM D6163	Granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for torch application.
Flintlastic FR Base T	39-3/8" x 33'; Roll Weight: 81lbs. (1.0 squares)	ASTM D6163	Modified Bitumen, coated fiberglass base sheet for torch application.
Flintlastic FR Cap CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 90 lbs. (1 square)	ASTM D 6163	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic FR Cap T CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 90 lbs. (1 square)	ASTM D 6163	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic GTA, GTA-FR CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 33' 3"; Roll weight: 105 lbs. (1 square)	ASTM D 6222	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.
Flintlastic GMS/GMS Premium CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 100/105 lbs. (1 square)	ASTM D 6164	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic FR-P/FR-P Premium CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 105 lbs. (1 square)	ASTM D 6164	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating. Covered with reflective CoolStar Coating.
Ultra Poly SMS	36" x 64'4" (2 squares)	ASTM D 6164, Grade S, Type I	Smooth surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop applications.
GlasBase™ Base Sheet	36" x 98'9"; Roll weight: 69 lbs. (3 squares)	ASTM D 4601 UL Type G2	Asphalt coated, fiberglass base sheet.



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# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<b>Product</b>	<u>Dimensions</u>	Test Specification	Product <u>Description</u>
PolySMS Base Sheet	39 3/8" x 64' 4"; Roll weight: 90 lbs. (2 squares)	ASTM D 4601, Grade S, Type II UL Type G2	Modified Bitumen coated polyester base sheet.
Yosemite® Buffer Base Sheet	36" x 32'10"; Roll weight: 90 lbs. (1 square)	ASTM D 3909 ASTM D 4897 UL Type 30	Mineral Surfaced fiberglass reinforced buffer sheet.
Black Diamond™ Base Sheet	36" x 68'7"; Roll weight: 78 lbs. (2 squares)	ASTM D 1970	Self-adhering fiberglass reinforced modified bitumen base sheet

## **APPROVED INSULATIONS:**

#### TABLE 2

Product Name	<b>Product Description</b>	<u>Manufacturer</u> (With Current NOA)
FlintBoard ISO	Polyisocyanurate foam insulation	CertainTeed Corporation
ACFoam-II	Polyisocyanurate foam insulation	<b>Atlas Roofing Corporation</b>
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
Multi-Max-3	Polyisocyanurate roof insulation	RMax Operating, LLC

## **APPROVED FASTENERS:**

## TABLE 3

<u>Fastener</u>	<b>Product</b>	<b>Product</b>		<b>Manufacturer</b>
<u>Number</u>	<u>Name</u>	<b>Description</b>	<b>Dimensions</b>	(With Current NOA)
1.	Twin Loc-Nails	Galvanized stress plate and tube with integrated locking staple.	2.7" round x various lengths	ES Products, Inc.



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# **EVIDENCE SUBMITTED:**

Test Agency/Identifier	Name	Report	<u>Date</u>
Factory Mutual Research Corp.	FMRC 4470	J.I. 3Y8A1.AM	03/23/96
•	FMRC 4470	J.I. 0D3A3.AM	04/04/97
	FMRC 4470	J.I. 2D0A0.AM	12/23/98
	FMRC 4470	J.I. 1D7A4.AM	11/09/98
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
United States Testing Company	ASTM D 5147	97457-4	06/03/88
	ASTM D 5147	97-457-2R	12/02/87
Momentum Technologies, Inc.	ASTM D 4601	AX31G8D	09/05/08
	ASTM D6164	AX31G8F	06/05/09
	ASTM D6222	AX31G8G	06/05/09
	ASTM D 3909/ D 4897	AX31G8C	09/05/08
Trinity ERD	TAS 114(J)	#3504.06.01-1	06/05/01
	TAS 117 (B)	3503.10.06	10/10/06
	TAS 117 (B)	O6490.04.07-R1	06/27/07
	TAS 114 (H)	Letter	04/05/06
	TAS 114	3533.01.06	01/06/06
	TAS 114 TAS 117 (B)/ ASTM D 6862	3521.07.04 C8500SC.11.07	07/29/04 11/30/07
	TAS 117 (B)/ ASTM D 0802	C8370.08.08	08/19/08
	ASTM Physical Properties	C10080.09.08-R4	03/25/10
	ASTM D6164/D4798	C31410.01.11-2	01/10/11
	ASTM D4601	C40050.09.12-1	09/28/12
	ASTM D1970	C40050.09.12-2	09/28/12
	ASTM D5147/D4798	C31410.10.10-R1	11/01/12
	ASTM D5147/D4798	C31410.01.11-1-R1	11/01/12
	ASTM D4798	C31410.01.11-2A-R1	02/21/13
	ASTM D4798	C31410.12.13	12/05/13
	ASTM D6222	C40050.12.13	12/05/13
PRI Construction Materials	ASTM D6163	CTC-032-02-01	01/22/08
Technologies LLC	ASTM D6163	CTC-066-02-01	08/09/11
	ASTM D6222	CTC-070-02-01	08/09/11
	ASTM D6164/D4798	CTC-093-02-01	08/09/11
	ASTM D2178	CTC-122-02-01	03/13/12
	ASTM D2178	CTC-123-02-01	03/13/12
	ASTM D4601	CTC-127-02-01	03/13/12
	ASTM D6163 ASTM D6163	CTC-128-02-01 CTC-129-02-01	06/11/12 06/11/12
	ASTM D6163 ASTM D6164	CTC-129-02-01 CTC-132-02-01	06/11/12
	ASTM D6164 ASTM D6164	CTC-162-02-01	05/09/13
	ASTM D0104 ASTM D6164	CTC-161-02-01	05/09/13
	ASTM D6162	CTC-183-02-01	10/02/13
	ASTM D6164	CTC-190-02-01	12/02/13



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#### APPROVED ASSEMBLIES

**Membrane Type:** APP Modified

**Deck Type 5I**: Cementitious Wood Fiber, Insulated

**Deck Description:** Cementitious Wood Fiber

System Type A(1): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

#### All General and System limitations apply.

**Anchor Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base

mechanically attached to the deck with Twin Loc-Nails spaced 7" o.c. in 4" side lap and two

staggered rows in center of the sheet, 7" o.c.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet,

7"o.c.

(Maximum Design Pressure -60 psf., See General Limitation #7.)

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet,

9"o.c.

(Maximum Design Pressure –60 psf., See General Limitation #7.)

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard		
Minimum 0.75" thick	N/A	N/A
Approved High Density Wood Fiberboard	270	
Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, Poly

SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate

of 20-40 lbs./sq.



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plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic STA torch

adhered.

**Membrane:** One ply of Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar, Flintlastic GTA, Flintlastic

GTA CoolStar, Flintlastic GTA-FR CoolStar or Flintlastic GTA-FR torch adhered to base sheet

or ply sheet.

**Maximum Design** 

**Pressure:** See fastening requirements listed above.



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**Membrane Type:** SBS Modified

**Deck Type 5I**: Cementitious Wood Fiber, Insulated

**Deck Description:** Cementitious Wood Fiber

System Type A(2): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

All General and System limitations apply.

**Anchor Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base

mechanically attached to the deck as detailed below.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet,

7"o.c.

(Maximum Design Pressure –60 psf., See General Limitation #7.)

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet,

9"o.c.

(Maximum Design Pressure -60 psf., See General Limitation #7.)

One or more layers of any of the following insulations:

Base Insulation Layer	<b>Insulation Fasteners</b>	<b>Fastener</b>
	<u>(Table 3)</u>	<u>Density/ft<sup>2</sup></u>
ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield		
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	<b>Insulation Fasteners</b>	<u>Fastener</u>
	<u>(Table 3)</u>	Density/ft <sup>2</sup>
FescoBoard		
Minimum 0.75" thick	N/A	N/A
Approved High Density Wood Fiberboard		
Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, Poly

SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate

of 20-40 lbs./sq.



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> Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use

with a torched cap sheet only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic

> Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR

Cap T or Flintlastic FR Cap T CoolStar torch adhered to base or ply sheet.

**Maximum Design** 

**Pressure:** See fastening requirements listed above.



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**Membrane Type:** APP Modified

**Deck Type 5I**: Cementitious Wood Fiber, Insulated

**Deck Description:** Cementitious Wood Fiber

System Type A(3): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

All General and System limitations apply.

**Anchor Sheet:** One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base

mechanically attached to the deck as detailed below.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet,

7"o.c.

(Maximum Design Pressure –60 psf., See General Limitation #7.)

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet,

9"o.c.

(Maximum Design Pressure -60 psf., See General Limitation #7.)

One or more layers of any of the following insulations:

Base Insulation Layer	<b>Insulation Fasteners</b>	<u>Fastener</u>
	<u>(Table 3)</u>	Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield		
Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of Black Diamond Base Sheet, self-adhered.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR

Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-

adhered or Flintlastic STA torch adhered.

**Membrane:** One ply of Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar, Flintlastic GTA, Flintlastic

GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base

sheet or ply sheet.

**Maximum Design** 

**Pressure:** See fastening requirements above.



NOA No.: 14-0224.06 Expiration Date: 06/19/18 Approval Date: 04/10/14 Page 10 of 14 **Membrane Type:** SBS Modified

**Deck Type 5I**: Cementitious Wood Fiber, Insulated

**Deck Description:** Cementitious Wood Fiber

System Type A(4): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

All General and System limitations apply.

**Anchor Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base

mechanically attached to the deck as detailed below.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet,

7"o.c.

(Maximum Design Pressure -60 psf., See General Limitation #7.)

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet,

9"o.c.

(Maximum Design Pressure -60 psf., See General Limitation #7.)

One or more layers of any of the following insulations:

Base Insulation Layer	<b>Insulation Fasteners</b>	<u>Fastener</u>
	<u>(Table 3)</u>	Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield		
Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of Black Diamond Base Sheet self-adhered.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR

Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use

with a torched cap sheet only) self-adhered.

**Membrane:** One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic

Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P,

Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar, adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch

adhered to ply sheet.

**Maximum Design** 

**Pressure:** See fastening requirements listed above.



NOA No.: 14-0224.06 Expiration Date: 06/19/18 Approval Date: 04/10/14 Page 11 of 14 **Membrane Type:** APP Modified

**Deck Type 5I:** Cementitious Wood Fiber, Non-Insulated

**Deck Description:** Cementitious Wood Fiber

**System Type E(1):** Base sheet mechanically fastened.

All General and System limitations apply.

**Base Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base

mechanically fastened to the deck as detailed below:

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet,

7"o.c.

(Maximum Design Pressure -67.5 psf., See General Limitation #9.)

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet,

9"o.c.

(Maximum Design Pressure –60 psf., See General Limitation #9.)

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR

Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-

adhered or Flintlastic STA torch adhered.

**Membrane:** One ply of Flintlastic FR Cap T CoolStar or Flintlastic FR Cap T, Flintlastic GTA, Flintlastic

GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet

or ply sheet.

**Surfacing:** (Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed

within a current NOA. Install one of the following:

1. Flood coat of hot asphalt with an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or

slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, APOC #212 Fibrated Aluminum

Roof Coating at an application rate of 1½ gal./sq., or APOC #400 Sunbrite at an

application rate of 3 gal./sq.

**Maximum Design** 

**Pressure:** See Fastening requirements above.



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SBS Modified **Membrane Type:** 

Deck Type 5I: Cementitious Wood Fiber, Non-Insulated

**Deck Description:** Cementitious Wood Fiber

System Type E(2): Base sheet mechanically fastened.

All General and System limitations apply.

**Base Sheet:** One ply of GlasBase, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base

mechanically fastened to the deck:

Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, **Fastening #1:** 

7"o.c.

(Maximum Design Pressure –67.5 psf., See General Limitation #9.)

Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, **Fastening #2:** 

9"o.c.

(Maximum Design Pressure -60 psf., See General Limitation #9.)

**Ply Sheet:** (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR

> Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use

with a torched cap sheet only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic

> Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR

Cap T or Flintlastic FR Cap T CoolStar torch adhered to base or ply sheet.

**Maximum Design** 

See Fastening requirements above. Pressure:



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#### GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control 2. Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size 3. shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

## END OF THIS ACCEPTANCE



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